14 November 2025

The Portal and Repository for Information on Marine Renewable Energy (PRIMRE) provides access to marine energy data, information, and resources in the U.S. and internationally. The bi-weekly PRIMRE Blast highlights relevant announcements and upcoming events; new content in the Knowledge Hubs; and international marine energy news. Email us to contribute!

Announcements	Tethys Eng. Documents	New Signature Project
Upcoming Events	Software Updates	News & Press Releases

Announcements

Renewable Energy Discovery (REDi) Island: Now Open for Full Exploration

REDi Island has expanded, and there's more to explore than ever! The latest updates to the free, web-based educational app unlock two additional island regions and eight new classroom lessons and activities. These enhancements add to the app's growing collection, which now includes 15 technology-focused animated videos, informational markers, supporting resources, and more.
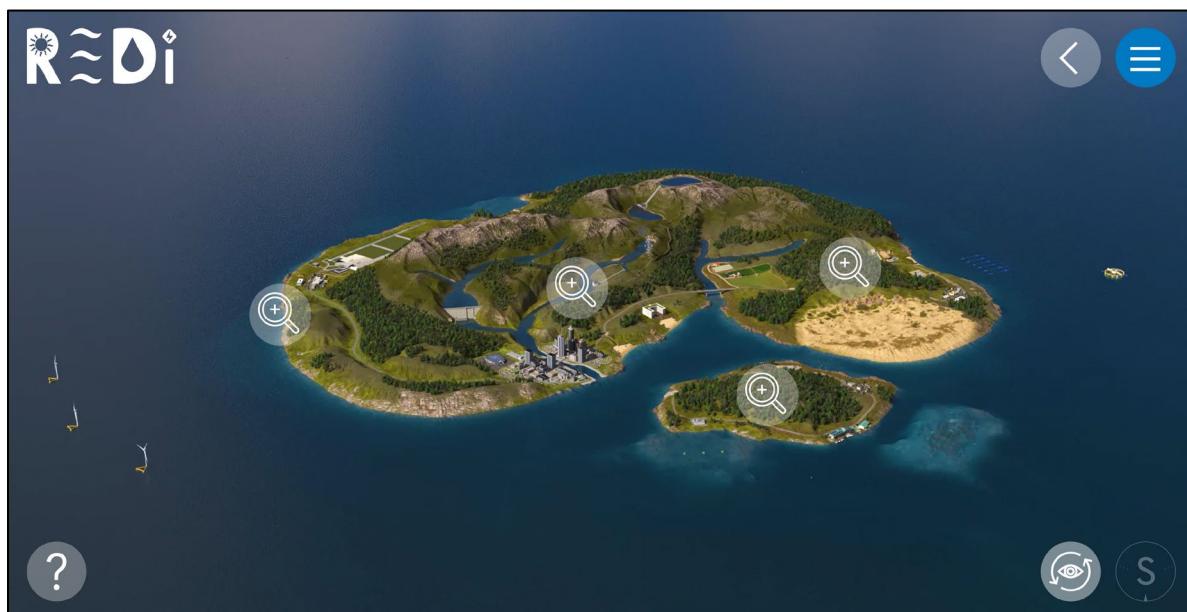
EMEC Consultation Open

European Marine Energy Centre (EMEC) has applied to the Scottish Ministers to extend the consent to construct and operate the Fall of Warness Tidal Test Site for a further two years until March 2028. Representations for this consultation are due by 20 November 2025.

INORE OES-BECS Applications Open

The International Network for Offshore Renewable Energy (INORE) has extended its Call for Applications for the Blue Energy Collaborative Scholarships (BECS), sponsored by Ocean Energy Systems (OES). This grant supports research projects that spark collaborations between INOREans or need access to facilities or travel support. Apply by 21 November 2025.

Supergen ORE Early Career Committee Call

The Supergen Offshore Renewable Energy (ORE) Hub is looking to expand its Early Career Committee, which plays a vital role in shaping the direction of its Early Career Network, with a new Deputy, Engagement Coordinator, and Industry Representative. These are 12-month, voluntary positions. Apply by 1 December 2025.

UMERC Call for Nominations

The University Marine Energy Research Community (UMERC) is now accepting nominations to fill upcoming vacant seats on their Board of Directors, which sets UMERC's primary direction, such as the structure and timing of conferences and workshops. These are 2-year, voluntary positions. Nominate yourself or a colleague by 7 December 2025.

ORISE Applications Open

The Oak Ridge Institute for Science and Education (ORISE) Marine Energy Fellowship Program, which offers graduate students and postgraduates the opportunity to engage in marine energy research while embedded at selected host facilities for up to 12 months, is now accepting applications for its Summer Cohort through 12 December 2025.

Calls for Abstracts

The Call for Abstracts for the 2nd Institute of Electrical and Electronics Engineers (IEEE) Subsea Innovation Technologies Workshop is open until 1 December 2025. The workshop will take place on 23-24 January 2026 in Aberdeen, Scotland.

The Call for Abstracts for the Environmental Interactions of Marine Renewables Conference (EIMR 2026) has been extended through 12 December 2025. EIMR 2026 will take place on 13-17 April 2026 at the Scottish Association for Marine Science in Oban, Scotland.

The Call for Abstracts for the Young Coastal Scientists and Engineers Conference (YCSEC 2026) is open until 19 December 2025. The conference will take place 13-14 April 2026 in Nottingham, England. Early bird registration is available through 16 January 2026.

The Call for Abstracts for OCEANS 2026 Sanya is open until 22 December 2025. OCEANS 2026 Sanya will take place 25-28 May 2026 in Sanya, China.

The Call for Speakers for All-Energy 2025 Exhibition and Conference show floor theatres is now open until 23 January 2026. All-Energy will take place 13-14 May 2025 in Glasgow, Scotland.

Funding & Testing Opportunities

The Offshore Renewable Energy Sustainability Alliance (ORESA) has launched its first Accelerator Programme Innovation Call for small and medium enterprises across the North-West Europe region. The programme is seeking cutting-edge technologies that advance the field of offshore renewable energy, including wave, tidal, floating wind, offshore solar, and other emerging innovations. Apply by 30 November 2025.

Career & Internship Opportunities

Fundy Ocean Research Centre for Energy (FORCE) is seeking a Technical Project Manager to lead the planning, coordination, and delivery of technical projects that support tidal energy demonstration and facility operations, including FORCE's Ocean Sensor Innovation Platforms (OSIP) project, which will deploy an autonomous floating platform, and submersible sensor systems on the seafloor, to collect data and advance responsible tidal energy growth.

Triton Systems is looking for a Mechanical Engineer - Ocean Systems with 1-5 years of experience who is ready to get hands-on with early-stage ocean technology research and development.

Dr. Linda D'Anna and Dr. Eric Wade are recruiting a PhD student to study the social dimensions of ocean energy. The student will be based at North Carolina State University and participate in Atlantic Marine Energy Center (AMEC) activities. The deadline to apply is 31 January 2026, but interested applicants are encouraged to reach out with their materials by 15 November 2025.

The InDustrial Centre for Doctoral Training for Offshore Renewable Energy (IDCORE) has opened applications for its four-year, full-time, Engineering Doctorate, which involves 1 year of teaching after which students are physically based with their UK sponsoring company for 3 years. Apply by 30 November 2025.

The University of Delaware (UD) is inviting applications for a full-time, tenure-track faculty position within the School of Marine Science and Policy (SMSP) at its Newark campus focused on the Blue Economy and Policy. Review of applications will begin on 1 December 2025, and continue until the position is filled.

Upcoming Events

The [PRIMRE Events Calendar](#) highlights key events from around the world related to marine energy, including conferences, webinars, workshops, and more.

Upcoming Webinars

The Blue Economy Cooperative Research Centre (CRC) is hosting a webinar, "[Building the Future Workforce: Graduate Attributes and Employability in the Blue Economy](#)", on 17 November 2025 from 4:00-5:30pm AEDT (5:00-6:30am UTC). This webinar explores how the Blue Economy CRC is preparing the next generation of researchers for a rapidly changing, technology-driven world and draws on findings from the Graduate Attributes Project.

Pacific Marine Energy Center (PMEC) is hosting a Marine Energy Fall Seminar Series for industry trailblazers to share stories from their journeys into marine energy and ocean engineering. The [second seminar](#), on 10 December 2025 from 1:00-2:00pm PST (9:00-10:00pm UTC), will feature Grace Chang, Director of Research & Development at Integral Consulting.

Upcoming Conferences

The Supergen Offshore Renewable Energy (ORE) Hub recently announced that its [Annual Assembly 2026](#) will take place on 22 April 2026 at the University of Warwick in Coventry, England. The Early Career Researcher Forum 2026 will also take place on 21 April 2026, also at the University of Warwick. More information coming soon.

The American Society of Mechanical Engineers (ASME) is hosting the [45th International Ocean Offshore and Arctic Engineering Conference (OMAE 2026)](#) on 7-12 June 2026 in Tokyo, Japan.

The International Energy Agency's Ocean Energy Systems (IEA-OES) and Ocean Energy Europe together with the Dutch Energy from Water Association (EWA) have announced they will join forces to host the [International Conference on Ocean Energy (ICOE) and Ocean Energy Europe's (OEE) Conference & Exhibition 2026](#) on 5-7 October 2026 in The Hague, Netherlands.

New Documents on Tethys Engineering

[Tethys Engineering](#) hosts thousands of documents on the technical aspects of marine energy research and development, including journal articles, conference papers, and reports.

[Wave Energy Conversion to Decarbonize Offshore Aquaculture: Multi-Level Techno-Economic Analysis for a Case Study in Peniche, Portugal](#) – **Bertrand et al. 2025**

> By 2050, global population growth will lead to a significant increase in demand for animal-based products, including seafood. Aquaculture is a key solution to meet these needs while reducing pressure on wild aquatic stocks. However, its environmental footprint and energy demand remain open concerns. This study explores the co-location

of offshore aquaculture with a wave energy converter—WaveRoller—as a renewable power source. Using a 44-year dataset from the Portuguese coast near Peniche, the analysis evaluates the survivability and operation of the WaveRoller, long-term percentile trends, seasonal energy production, extrapolated extreme events using probabilistic modeling, and confidence intervals for energy costs. A scenario-based range of energy demand is constructed from a baseline blue mussel production of over 400 tons/yr.

[Tidal stream energy in the Netherlands—Resource assessment and future effects due to mean sea level rise](#) – Bolhuis et al. 2026

This study investigates the tidal stream energy resources along the Dutch coast and focuses on the impact of Mean Sea Level (MSL) rise on the future resource potential. A THETIS high-resolution unstructured model is used. The model is validated against sea surface elevations, and the Dutch tidal stream resource uncertainties are well defined. The validated model is used to evaluate the tidal stream energy potential of the Netherlands, regions in the Wadden Sea and Westerschelde in Zeeland display noteworthy potential, evidenced by maximum average flow velocities of 1.3 m/s and maximum average energy densities of 1600 W/m^2 for the Wadden Sea and maximum average flow velocities of 0.75 m/s and maximum average energy densities of 300 W/m^2 for the Westerschelde.

[Comprehensive assessment of working fluid selection for ocean thermal energy conversion](#) – Adiputra et al. 2025

Ocean Thermal Energy Conversion (OTEC) is a type of ocean renewable energy that generates electricity by utilizing the temperature difference between warm surface seawater and cold deep seawater. Despite its vast potential, especially in tropical regions, OTEC technology remains at the pilot stage. To enhance the implementation of OTEC on a commercial scale, this study aims to determine the working fluid by conducting an in-depth analysis of working fluid selection in OTEC systems, focusing on energy efficiency, safety, and environmental impact. The study involved modeling and creating an in-house program to calculate the heat and mass balance, which was validated using ASPEN+ software in the single-stage Rankine cycle system. The working fluid selection optimization study was conducted through two stages of selection.

Marine Energy Software Updates

[Marine Energy Software](#) is a collection of commercial and open-source software relevant to marine energy development, including software for simulating devices, and processing and analyzing data.

[BEMRosetta 2025 September Release](#)

BEMRosetta allows users to load Boundary Element Method (BEM) hydrodynamic coefficients from one format and save them in another. In addition, it allows users to compare the results obtained between programs, the results between similar geometries

and the same geometry with different discretization levels. BEMRosetta allows users to view and visually compare the meshes from different BEM programs, like WAMIT, HAMS, Nemoh, Capytaine, and others. The BEMRosetta 2025 September release includes many updates and additions such as mesh and mooring animations, mooring handling and visualization using MoorDyn, a chain and rope calculation tool, and improvements to the AQWA, Capytaine, HAMS, and WAMIT modules. Keep an eye out for the 2025 November release and check out these short instructional videos that are available to help users explore BEMRosetta's features.

MHKiT-MATLAB and MHKiT Python v1.0.0 Release

The Marine and Hydrokinetic Toolkit (MHKiT) is open-source software, developed in Python and MATLAB, for rapid data processing, visualization, quality control, resource characterization, and performance assessment. MHKiT-Python and MHKiT-MATLAB provide robust and verified functionality in both Python and MATLAB to meet data processing needs of the marine energy community. MHKiT-MATLAB v1.0.0 features significant updates including new passive acoustic and mooring modules, new examples of the passive acoustic, mooring, WEC-Sim modules, and improvements to the Wave, DOLFYN, and WDRT modules. The MHKiT-Python v1.0.0 release includes new sound exposure level features and a river discharge function as well as some source code and functionality improvements. MHKiT-Python v1.0.1 is the most up-to-date version of this release and includes bug fixes.

OpenFAST v4.1.2 Release

OpenFAST is an open-source software package developed by the National Renewable Energy Laboratory. It is a multi-physics, multi-fidelity tool for simulating the coupled dynamic response of wind and current energy turbines. MoorDyn is a popular module from OpenFAST used across the marine energy industry to numerically model mooring line dynamics using lumped mass discretization. This past August, the OpenFAST team released OpenFAST v4.1.2, which includes a critical bug fix with the VS Code build system for OpenFAST and MoorDyn as well as module changes to HydroDyn, SeaState, ServoDyn, and SubDyn.

Tsdat v0.9.0 Release

Tsdat is an open-source Python framework developed by the Pacific Northwest National Lab that makes creating pipelines to process and standardize time-series data easier, clearer, and quicker to stand up, so that you can spend less time data-wrangling and more time on data analysis. Tsdat v0.9.0 was released over the summer and includes new features to support QC-aware transformations written in Python. The most up-to-date version of this release with bug fixes is Tsdat v0.9.2, which now supports NumPy 2.0.0.

New Signature Project on PRIMRE

Signature Projects bring focus to a selection of research and development projects supported by the U.S. DOE's WPTO and link to all the projects' reports, datasets, and associated papers.

Waves to Water Prize

Starting in 2019, the U.S. Department of Energy's Water Power Technologies Office began investing in the Powering the Blue Economy initiative to identify and support additional applications for marine energy. This initiative was led by the development of the Waves to Water Prize, encouraging the development of small, modular, cost-competitive wave-powered desalination systems. The Waves to Water Prize distributed $3.3 million in prizes over five stages, which included high-level concept proposals, numerical modelling, site-specific design, subsystem prototyping, and a final ocean demonstration. The prize supported the integration of existing and novel wave energy generation technologies with water treatment technologies to deliver effective, consistent, durable, and low-maintenance water delivery systems.

News & Press Releases

New Tidal Energy Projects Coming to Nova Scotia – **Government of Nova Scotia**

Eauclaire Tidal Limited Partnership is adding projects in two more berths at the Fundy Ocean Research Centre for Energy (FORCE) to help advance clean energy and the jobs and investment that come with it. Eauclaire and its technology partner, Orbital Marine Power, already occupy one berth at FORCE in the Minas Passage (Canada). Adding two more berths to their portfolio allows the companies to pursue a total of 16.5 megawatts (MW) of tidal energy. Along with the berths, Eauclaire will receive tidal energy licences and power purchase agreements with Nova Scotia Power.

Zoex Power completes third phase of wave energy trials (Video) – **Offshore Energy**

Aberdeen-based Zoex Power has concluded Phase III of its (Ordu) project, having collected three months of data and achieved technology readiness level (TRL) 7, with no incidents. The company said it retrieved the acoustic doppler current profiler (ADCP) from the seabed and lifted the arm, marking the completion of the current testing phase. Report writing is now underway ahead of the planned start of Phase IV next year. The project is supported by Innovate UK, Scottish Enterprise, and several industry partners, including Sealand Projects, UMBRAGROUP, the University of Strathclyde, and the Ordu Municipality. View the video on LinkedIn here.

Horizon Europe backs FOREST project to advance ocean energy system technologies – **EMEC**

The FOREST (Future Ocean Renewable Energy System Technologies) project has launched with support from the European Commission under the Horizon Europe Programme. With a budget of €4 million, the project brings together eight partners from

the UK, Portugal, Spain and Sweden to drive advancements in subsea components and digital technologies that will set new global standards for durability, reliability and efficiency in ocean energy systems. Coordinated by EMEC based in Orkney, Scotland, the three-year project aims to enhance the performance of ocean energy arrays, reduce the levelised cost of energy (LCOE), foster development of ocean energy systems, and accelerate market readiness.

[Seaturns Announces Phase II of Its Full-Scale Sea Trials in Nouvelle-Aquitaine](#) – Seaturns

Seaturns, a Bordeaux-based startup specializing in the conversion of wave energy into clean electricity, is moving forward with Phase II of its full-scale sea trials on an operational site located within the jurisdiction of the Port of Bordeaux, off the Gironde estuary in the Nouvelle-Aquitaine region (France). This site offers optimal wave and logistical conditions, essential for testing the floater's performance in an environment representative of future industrial deployment. The Gironde estuary site was selected for its technical and maritime characteristics, which are particularly well suited to validating the demonstrator.

[Ocean Power Technologies and Mythos AI Partner to Advance Autonomous Maritime Capabilities](#) – Ocean Power Technologies

Ocean Power Technologies, Inc. (OPT), a leader in intelligent maritime systems and ocean energy solutions, recently announced a partnership with Mythos AI to integrate advanced AI-driven autonomy software across OPT's fleet of WAM-V® Autonomous Surface Vehicles (ASVs) and PowerBuoy® platforms. This collaboration is designed to enhance OPT's operational capabilities and accelerate the range of integrated solutions the company can deliver to customers in defense, security, and commercial sectors while expanding OPT's addressable market by strengthening its position in the fast growing autonomous and intelligent systems domain.

[Weco secures support to advance scalable wave energy solutions](#) – Offshore Energy

The Hague-based Wave Energy Collective (Weco) has raised €600,000 to accelerate the development and testing of its modular wave energy technology. According to Weco, the investment comes from the Netherlands Enabling Water Technology fund (NEW-ttt), Init Power, and Cyriel de Jong. The company said that it will use the funding to advance open sea trials and optimize its next-generation prototype ahead of larger-scale demonstrations. Founded in 2023, Weco is developing modular, lightweight, and storm-resilient wave energy converters (WEC) designed for offshore and island applications. The Kaizen system converts the circular motion of waves into continuous energy through a compact mechanical design aimed at maximizing capture while simplifying deployment and maintenance.